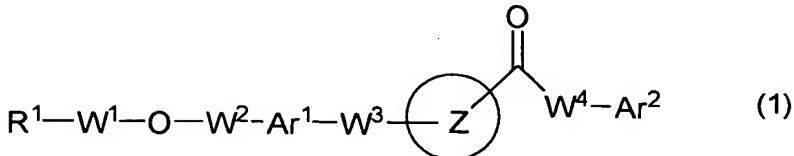


CLAIMS

1. A heteroaryl derivative of the formula (1):



5 (wherein Ring Z is an optionally substituted heteroaryl;

R¹ is a carboxyl group, an alkoxy carbonyl group, an optionally substituted carbamoyl group, an optionally substituted cyclic aminocarbonyl group, an optionally substituted alkylsulfonylcarbamoyl group, an optionally substituted arylsulfonylcarbamoyl group, or a tetrazolyl group;

10 W¹ and W² are an optionally substituted lower alkylene;

Ar¹ is an optionally substituted arylene or an optionally substituted heteroarylene;

15 W³ is a single bond, a lower alkylene, a lower alkenylene, or -Y¹-W⁵- (in which Y¹ is an oxygen atom, a sulfur atom, -S(O)- or -S(O)₂-, and W⁵ is a lower alkylene or a lower alkenylene);

W⁴ is a single bond, -NR¹⁰-, -NR¹⁰-W⁶- (in which R¹⁰ is a hydrogen atom, or an optionally substituted lower alkyl, and W⁶ is a lower alkylene, or a lower alkenylene);

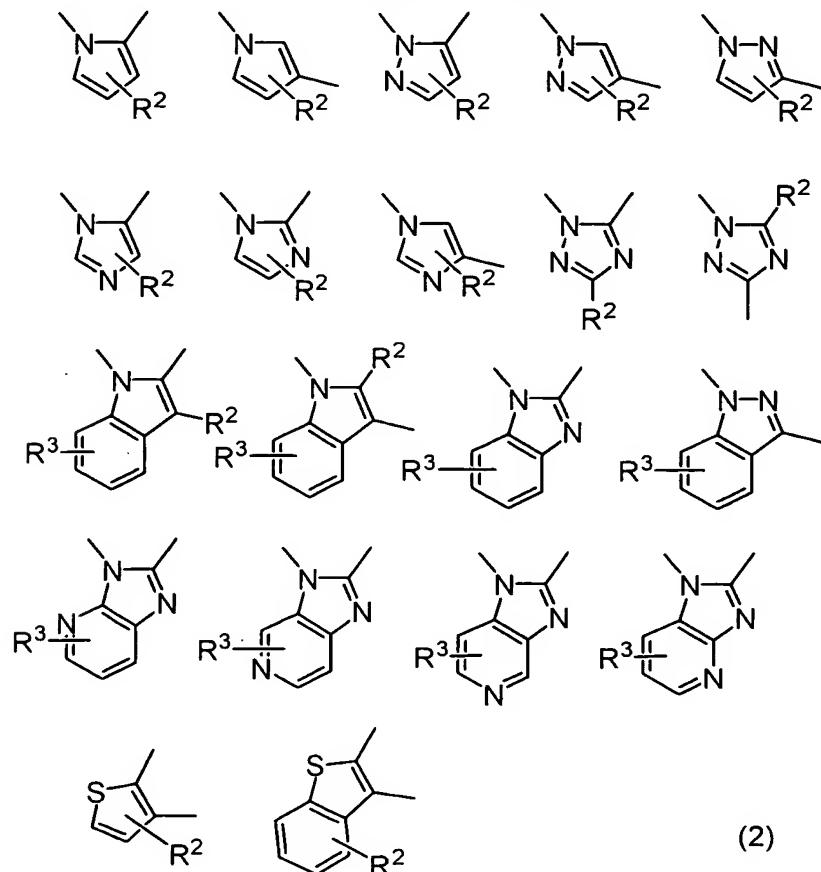
20 Ar² is an optionally substituted aryl or an optionally substituted heteroaryl),
or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

25 2. The heteroaryl derivative according to claim 1, wherein W³ is a lower alkylene, a lower alkenylene, or -Y¹-W⁵- (in which Y¹ is an oxygen atom, a sulfur atom, -S(O)- or -S(O)₂-, and W⁵ is a lower alkylene or a lower alkenylene), or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

3. The heteroaryl derivative according to claim 1, wherein Ring Z is an optionally substituted pyrrole ring, an optionally substituted pyrazole ring, an optionally substituted imidazole ring, an optionally substituted triazole ring,

an optionally substituted indole ring, an optionally substituted indazole ring, or an optionally substituted benzimidazole ring, W^3 is a C_1 - C_5 alkylene, a C_2 - C_5 alkenylene, or $-Y^1'-W^5'$ (in which Y^1' is an oxygen atom or a sulfur atom, and W^5' is a C_1 - C_5 alkylene or a C_2 - C_5 alkenylene), W^4 is a single bond, $-NR^{10}-$, a C_1 - C_4 alkylene, or a C_2 - C_4 alkenylene, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

4. The heteroaryl compound according to claim 1, wherein Ring Z is selected from the following formulae (2):



10 (in which the number of R^2 may be one or more, and each is independently selected from a hydrogen atom, a halogen atom, an optionally substituted alkyl, an optionally substituted aryl, an optionally substituted heteroaryl, and an optionally substituted thiol, the number of R^3 may be one or more, and each is independently selected from a hydrogen atom, a halogen atom, an optionally substituted alkyl, an optionally substituted aryl, an optionally substituted heteroaryl, an optionally substituted thiol, an optionally substituted hydroxy, an

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optionally substituted non-aromatic heterocyclic group, an optionally substituted amino, an optionally substituted acyl, and an alkylsulfonyl, and either of the binding direction of these groups may be acceptable), or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

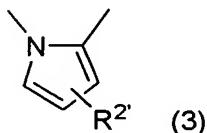
5. The heteroaryl compound according to claim 1 or claim 2, wherein Ring Z is an optionally substituted pyrrole ring, an optionally substituted imidazole ring, or an optionally substituted benzimidazole ring, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

10. The heteroaryl compound according to any one of claims 1 to 3, wherein W¹ and W² are an optionally substituted straight chain C₁-C₃ alkylene group, or an optionally substituted C₃-C₆ alkylene group containing a cyclic structure, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

15. The heteroaryl compound according to any one of claims 1 to 3, wherein W¹ and W² are an optionally substituted methylene or ethylene, W³ is a straight chain C₂-C₄ alkylene or C₃-C₄ alkenylene, or -Y^{1"}-W^{5"-} (in which Y^{1"} is an oxygen atom and W^{5"-} is a straight chain C₂-C₄ alkylene), W⁴ is a single bond, -NR¹⁰-, methylene, or transvinylene, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

20. The heteroaryl compound according to any one of claims 1 to 6, wherein Ar¹ is an optionally substituted phenylene, and the binding position of W² is at meta-position or para-position with respect to the binding position of W³, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

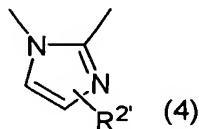
9. The heteroaryl derivative according to claim 1, wherein Ring Z is a group of the formula (3):



(in which the number of R^{2'} may be one or more, and each is independently selected from a hydrogen atom, methyl, an optionally substituted phenyl, and an optionally substituted heteroaryl), R¹ is a carboxyl group, an optionally

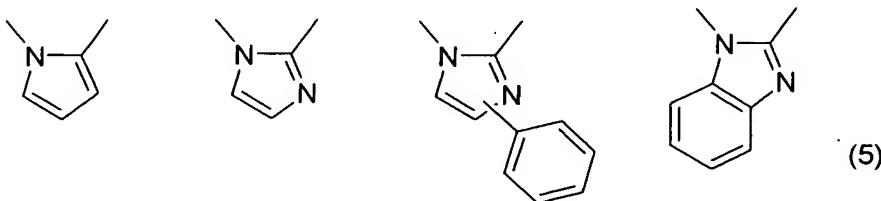
substituted alkylsulfonylcarbamoyl group, or a tetrazolyl group, W¹ and W² are an optionally substituted methylene or ethylene, Ar¹ is an optionally substituted phenylene, W³ is a straight chain C₂-C₄ alkylene or C₃-C₄ alkenylene, Ar² is an optionally substituted phenyl, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

10. The heteroaryl derivative according to claim 1, wherein Ring Z is a group of the formula (4):



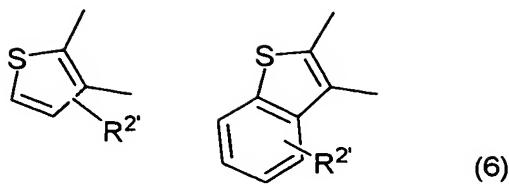
(in which the number of R^{2'} may be one or more, and each is independently selected from a hydrogen atom, methyl, an optionally substituted phenyl, and an optionally substituted heteroaryl), R¹ is a carboxyl group, an optionally substituted alkylsulfonylcarbamoyl group, or a tetrazolyl group, W¹ and W² are an optionally substituted methylene or ethylene, Ar¹ is an optionally substituted phenylene, W³ is a straight chain C₂-C₄ alkylene or C₃-C₄ alkenylene, Ar² is an optionally substituted phenyl, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

11. The heteroaryl derivative according to claim 1, wherein Ring Z is selected from the following formulae (5):



20 R¹ is a carboxyl group, W¹ is an optionally substituted methylene or ethylene, W² is methylene, Ar¹ is phenylene, W³ is propenylene or propylene, Ar² is an optionally substituted phenyl, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

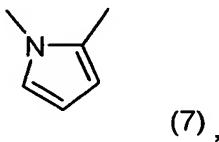
25 12. The heteroaryl derivative according to claim 1, wherein Ring Z is selected from the following formulae (6):



(in which the number of R^{2'} may be one or more, and each is independently selected from a hydrogen atom, methyl, an optionally substituted phenyl, and an optionally substituted heteroaryl), R¹ is a carboxyl group, W¹ is an optionally substituted methylene, or ethylene, W² is methylene, Ar¹ is phenylene, W³ is propenylene or propylene, Ar² is an optionally substituted phenyl, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

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13. The heteroaryl derivative according to claim 1, wherein Ring Z is a group of the formula (7):

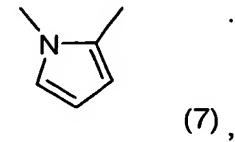


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R¹ is a carboxyl group, W¹ is an optionally substituted methylene, W² is methylene, Ar¹ is phenylene, W³ is propenylene or propylene, Ar² is an optionally substituted phenyl, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

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14. The heteroaryl derivative according to claim 1, wherein Ring Z is a group of the formula (7):

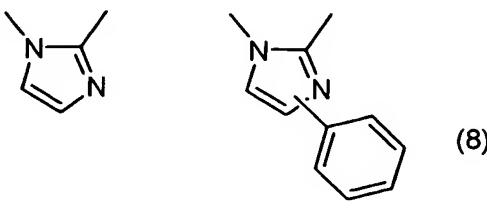


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R¹ is a carboxyl group, W¹ is a methylene optionally substituted by an alkyl having 1 to 3 carbon atoms, W² is methylene, Ar¹ is phenylene, W³ is propenylene or propylene, Ar² is a phenyl optionally substituted by an alkyl having 1 to 3 carbon atoms or an alkoxy having 1 to 3 carbon atoms, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

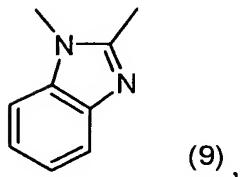
15. The heteroaryl derivative according to claim 1, wherein Ring Z is

selected from the following formulae (8):



R¹ is a carboxyl group, W¹ is a methylene optionally substituted by an alkyl group having 1 to 3 carbon atoms, W² is methylene, Ar¹ is phenylene, W³ is propenylene or propylene, Ar² is a phenyl optionally substituted by an alkyl having 1 to 3 carbon atoms or an alkoxy having 1 to 3 carbon atoms, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

16. The heteroaryl derivative according to claim 1, wherein Ring Z is a group of the formula (9):

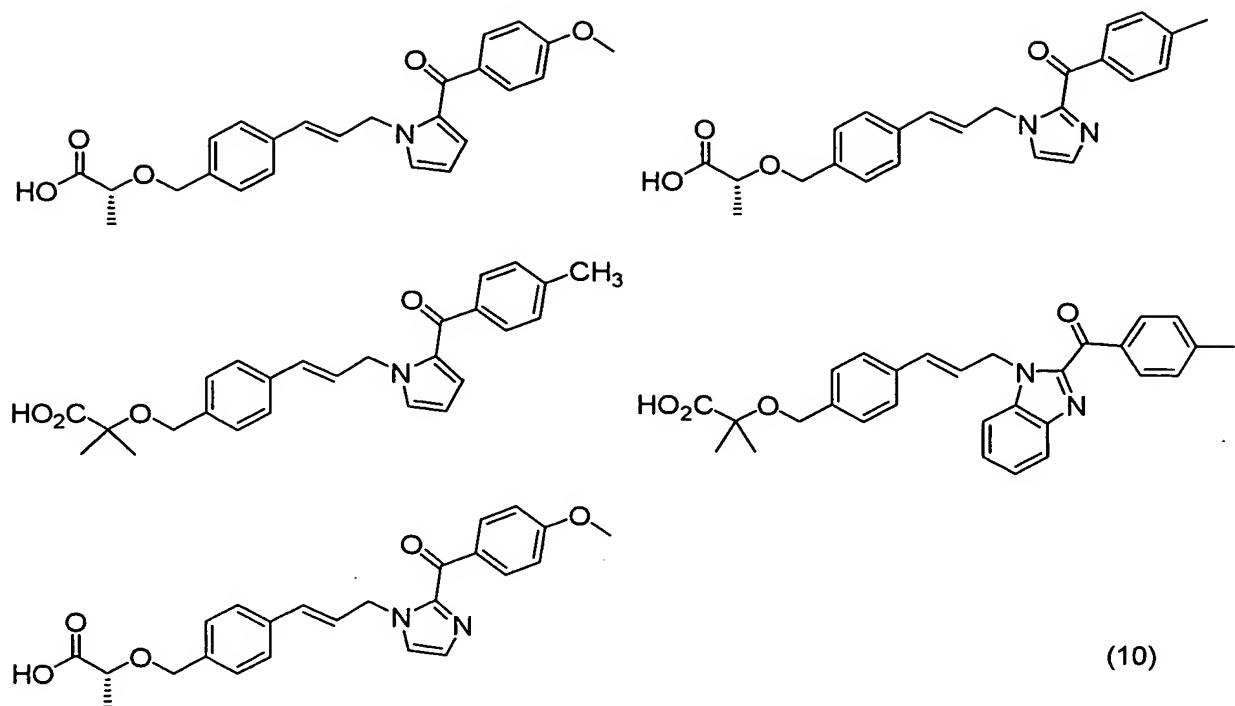


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R¹ is a carboxyl group, W¹ is a methylene optionally substituted by an alkyl group having 1 to 3 carbon atoms, W² is methylene, Ar¹ is phenylene, W³ is propenylene, Ar² is a phenyl optionally substituted by an alkyl group having 1 to 3 carbon atoms or an alkoxy group having 1 to 3 carbon atoms, or a prodrug thereof, or a pharmaceutically acceptable salt thereof.

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17. The heteroaryl derivative according to claim 1, which is a compound selected from the following formulae (10):



or a prodrug thereof, or a pharmaceutically acceptable salt thereof.